

US Army Corps of Engineers

Seattle District

Notice of Preparation

Planning and Project Management Division Environmental Management Branch P.O. Box 3755 Seattle, WA 98124-3755

ATTN: Jeffrey F. Dillon (PM-PL-ER)

Public Notice Date: 1 June 2009 Expiration Date: 20 June 2009

Reference: PL-09-07

Name: Leach Rd., Old Soldiers Home, Jones Road Levee and Water Ski Levee Repairs

river systems. damages on the Puyallup and Carbon Rivers are in such close proximity, this document includes both velocity jet stream which is a common weather pattern experienced in this region. Because of the levee year flood event occurring at the Orting gage. Intense rainfall and rapid snowmelt were a result of a high during flooding. Major flooding occurred on the Puyallup and Carbon Rivers in January 2009 with a 33-15.8) on the Carbon River, Pierce County, Washington. Repairs are intended to address damage caused Jones Road Levee (RM 21.3) and Old Soldiers Home Levee (RM 22.6) and at the Water Ski levee (RM assessment (EA) for proposed levee repairs on the Puyallup River at the Leach Road Levee (RM 19.8); plans to prepare, pursuant to the National Environmental Policy Act (NEPA), an environmental Interested parties are hereby notified that the U.S. Army Corps of Engineers, Seattle District (Corps)

AUTHORITY

these projects. exhibited by the flood control work prior to the damaging event. Pierce County is the local sponsor for destroyed by floods. The statute authorizes rehabilitation to the condition and level of protection rehabilitation and restoration work under this authority is limited to flood control works damaged or The proposed levee repair is authorized by Public Law 84-99 (33 U.S. Code Section 701n). Corps

PROPOSED ACTION

Multiple alternatives are under consideration, including the non-structural, Setback, Repair-in-kind and prior to the January 2009 flood event in order to protect lives and property from subsequent flooding. The purpose of the project is to repair and return the damaged levees to the level of flood protection found No Action alternative.

Replace In Kind. This alternative is currently the preferred alternative for all four projects

section. New embankment material would be placed to re-establish the levee prism to the pre-flood grade levee would have a 25-year level of protection. Repairs would consist of repairing the 550 LF washed out rivermile 19.8. In the current condition, the levee offers 2-year level of flood protection. With repair, the protection loss. The project is located on the left bank of the Puyallup River in Section 30, Township 19 section, resulting in erosion of the upper 3 feet of the levee embankment material and riverward slope with addition of 3 feet to match the elevation of undamaged sections up and downstream. North, Range 5 East, and Section 25, Township 19 North, Range 4 East of the Willamette Meridian at Leach Road: Flood waters overtopped the Leach Road levee near Orting along a 550 linear foot (LF) The levee face

riprap on the levee face. The riprap would be tied into the existing toe rock. All work would be above would be via the top of the levee which remains a drivable surface. be laid over the embankment armor and planted with willows to encourage vegetative growth. Access water at time of construction. All disturbed areas would be hydro seeded with native grasses. Soil would would be regraded to achieve a 2H:1V slope, installing a 1 foot filter blanket (spalls) overlaid by 3 feet of

be hydroseeded with native grasses. crushed gravel would be applied to the levee top (driving surface). Soil would be laid over the toe areas, and riprap placed on the levee face as erosion armor (3 feet thick, min.). adding granular fill to achieve a 2H:1V slope. Large armor rock would be used to reconstruct the scoured the levee would have a 30-year level of protection. Repair would consist of regrading the levee face and rivermile 21.3. The Jones Road levee is across the river from the Old Soldiers Home Site 2 location North, Range 5 East, and Section 5, Township 18 North, Range 5 East of the Willamette Meridian at embankment armor and planted with willows to encourage vegetative growth. All disturbed areas would would be repaired. In the current condition, the levee offers 2-year level of flood protection. With repair, Bridge on a levee section with heavy rock placement. Approximately 500 LF of slope and toe damage Repairs are required at the downstream end of the levee system, immediately upstream of Calistoga Jones Road: Floodwaters resulted in toe scour and loss of embankment along the Jones Road Levee near The project is located on the right bank of the Puyallup River in Sections 31 and 32, Township 19 A six inch lift of

soil suitable for willow plantings. At both locations, a 6 inch lift of gravel would be placed on the drivin require substantial alteration to support the work. hydroseeded with native grasses. Access is provided by existing roads and levee top that would not surface, and excess excavation material would be placed on the backslope. All damaged areas would be reach) would include re-establishment of the toe and installation of a 1 foot filter blanket overlain by and placement of a 1 foot filter blanket (spalls) overlain by 3 feet of riprap. Soil would be placed on the sloping the levee face to establish a 2H:1V slope, armor rock would be placed to re-build the levee toe, consists of 290 LF of toe and slope rock replacement. Work at Site 1 would consist of excavating and reand consists of 290 LF of slope and toe damage. Site 2 is at the downstream end of the levee system, of the Willamette Meridian at rivermile 22.6. Site 1 is located generally in the middle of the levee system feet of riprap. Spalls would be mixed with the riprap to fill the interstices, which would be overlain by levee toe to establish an 8 foot wide bench where willows would be planted. Site 2 repairs (downstream 150 LF of slope and toe damage. In the current condition, the levee offers 5-year level of flood immediately upstream of Calistoga Bridge on a levee section with heavy rock placement and consists of Sections 31 and 32, Township 19 North, Range 5 East, and Section 5, Township 18 North, Range 5 Home Levee in two locations near Orting. The project is located on the left bank of the Puyallup River in Old Soldiers Home: Flood waters resulted in toe scour and loss of embankment along the Old Soldiers With repairs, the levee would have a 40-year level of protection. Site 1 (middle reach)

spalls and rock. The slope would then be planted with willows. All damaged areas would be hydroseeded would be placed over the armor rock to fill the interstices, and a 1 foot lift of topsoil would overlay the foot filter blanket of spalls from the toe to the crown. Along the upper 6 feet of the levee slope, spalls 4 ton stone to re-establish the damaged toe. A 3 foot blanket of 3-4 man rock would be installed over a 1 armor rock will be temporally stockpiled to be reused on site. A 5'x10' toe would be constructed with 2 to total repair length is 390 LF. The existing damaged riverward slope will be regraded to a 2H:1V. Existing offers 6-year level of protection. With repair, the levee would provide 50-year level of protection. The North, Range 5 East of the Willamette Meridian at rivermile 15.8. In the current condition, the levee Water Ski Levee- Carbon River: Flood waters on the Carbon River exceeded flood stage and high velocity flows caused toe scour, loss of embankment, and loss of armor rock for 390 LF. The Water Ski Levee Rehabilitation is located on the right bank of the Carbon River in Sections 26 and 27, Township 19

alteration to support the work. with native grasses. Access is provided by existing roads and levee top that would not require substantial

environmental measures, would occur during the NEPA process and before construction Final selection of the preferred alternative and finalization of the design, including any additional

ANTICIPATED IMPACTS

Riparian vegetation loss would be minimal and new vegetation would be planted at all sites Puyallup; July 15 - September 15 in the Carbon), to minimize impacts to salmon, bull trout and steelhead vibration. Repairs would be done in the approved in-water work windows (July 15-August 31 in the The project is expected to cause temporary disruptions to nearby fish and wildlife as a result of noise and

pursuant to the Bald and Golden Eagle Protection Act. during the Federal ESA consultation process. Impacts to bald and golden eagles will be considered plant species including, Puget Sound/Coastal bull trout, Puget Sound Chinook salmon, will be determined project site, intolerance to the existing level of human activity, or both. Affects to other listed animal and paintbrush and water howellia because of specialized habitat requirements that are not present in the expected to grizzly bear, gray wolf, Canada lynx, marbled murrelet, killer whale, spotted owl golden A biological assessment is being prepared pursuant to Sec. 7 of the Endangered Species Act. No effect is

and placement. All the proposed projects are in or near the town of Orting. Construction-related traffic monoxide, and dust on roadways. Temporary increases in noise would occur as a result of rock delivery temporarily and locally generate gasoline and diesel exhaust fumes, carbon dioxide (CO2), carbon footprints or changes in the nature of the levees. Construction vehicles and heavy equipment will identified on any of the proposed sites. Work will not result in exceedences of the pre-damage levee are anticipated through provision of riparian vegetation along the repaired levee. Wetlands have not been suspended solids may enter into waters and temporarily causes increases in turbidity. Long term benefits Potential effects to water quality include a small incremental effect of loss of shading. It is possible that would cause minor temporary increases to, and disruption of, local traffic

Corps' determinations of effects to historic properties, the investigation report, and monitoring plan will determine whether there is a potential for the proposed repairs to cause effects to historic properties. The Prior to repairs, a Corps archeologist will conduct a cultural resources survey of the project area to appropriate tribes prior to construction. be reviewed and approved by the Washington State Historic Preservation Officer (SHPO) and the

Puyallup valley would continue. Development could possibly be fostered by the presence of these levees, which would mean further long-term environmental degradation The repairs would return the levees to their pre-flood level of protection. Development within the

COMPLIANCE WITH OTHER LAWS AND REGULATIONS

in changes to the character, scope, or size of the original fill design in a manner that affects the waters of evaluation and accompanying Section 401 Water Quality Certification so long as the repairs do not result affect Essential Fish Habitat under the Magnuson-Stevens Fishery Conservation and Management Act. critical habitat. An evaluation will be made concerning whether the projects are anticipated to adversely prepared to provide determinations on affects to threatened and endangered species and their designated critical habitat, pursuant to Sec. 7(a)(2) of the Endangered Species Act. A biological assessment is being Marine Fisheries Service concerning anticipated effects on threatened and endangered species and their the U.S., and will occur within a reasonable period of time after damage occurred. Section 404(f)(1)(B) of the Clean Water Act exempts levee rehabilitations from requiring a Section 404 The Corps will coordinate the proposed action with the U.S. Fish and Wildlife Service and the National The 2009 Puyallup

county shoreline management plans pursuant to the CZMA would be made. The project is not coastal under the Coastal Zone Management Act (CZMA). A determination of consistency with state and footprints of these proposed projects and no wetland fill is anticipated. Pierce County is considered and Carbon River projects each meet these exemption guidelines. There are no wetlands present in anticipated to cause violations of any standards under the Clean Air Act.

EVALUATION

associated with the levee rehabilitation project is currently underway. environmental assessment (EA). Preparation of an EA addressing potential environmental impacts adequately evaluated under the National Environmental Policy Act through preparation of an The Corps has made a preliminary determination that the environmental impacts of the proposal can be

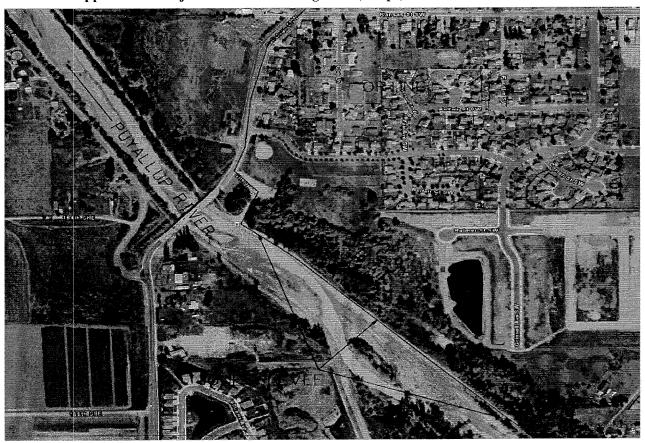
attendant to an EIS, if significant effects on the quality of the human environment are identified and of the proposal may be changed upon consideration of the comments received. The Corps will initiate an cannot be mitigated. Environmental Impact Statement (EIS), and afford all the appropriate public participation opportunities Corps will consider all submissions received before the expiration date of this notice. The nature or scope The Corps invites submission of factual comment on the environmental impact of the proposal. The

at telephone 206 764-6174; email address: jeffrey.f.dillon@usace.army.mil. and email address: lester.e.soule@usace.army.mil or the Environmental Coordinator Mr. Jeffrey F. Dillon Requests for additional information should be directed to Lester Soule, Project Manager, at 206-764-3699 order to ensure adequate consideration. Project information and drawings are attached to this document. Comments should reach this office (address at top), not later than 30 days from the date of this notice in

PROJECT DRAWINGS AND PHOTOGRAPHS.

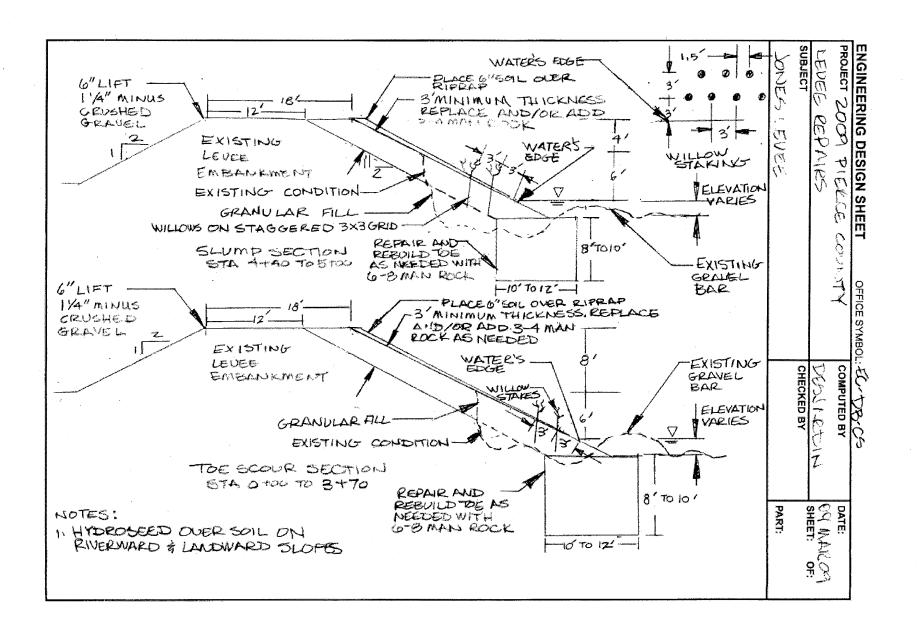
JONES ROAD

1.1.1 Appendix B: Project location and design data, maps, and related information



(Google Earth 2007: Annotated by Corps, 2009)

The levee is located on the right bank of the Puyallup River in Pierce County, WA



1.1.2 Appendix D: Damages

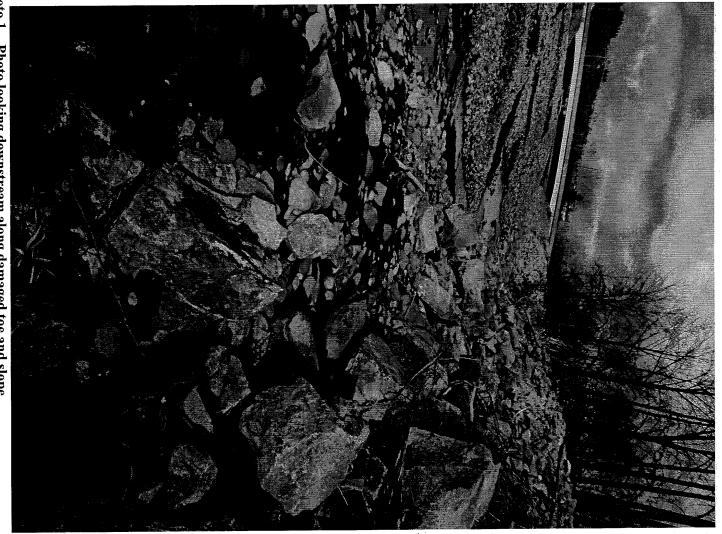


Photo 1 - Photo looking downstream along damaged toe and slope

(Corps 2009)



Photo 2 – Photo of lost toe rock

(Corps 2009)

LEACH ROAD

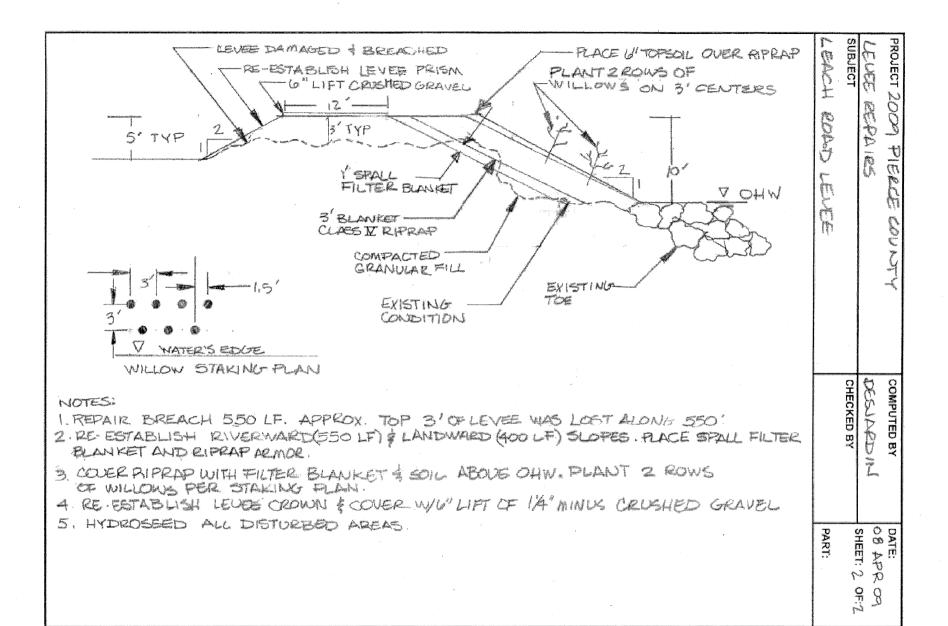
Appendix B: Project location and design data, maps, and related information



(Google Earth 2007: Annotated by Corps, 2009)

The Leach Road Levee is on the left bank of the Puyallup River in Pierce County, WA

(Section 30, Township 19 North, Range 5 East, and Section 25, Township 19 North, Range 4 East, Willamette Meridian



Appendix D: Damages

Photo 1: Breach (Repair site)

(Corps 2009)

OLD SOLDIERS HOME LEVEE

Appendix B: Project location and design data, maps, and related information

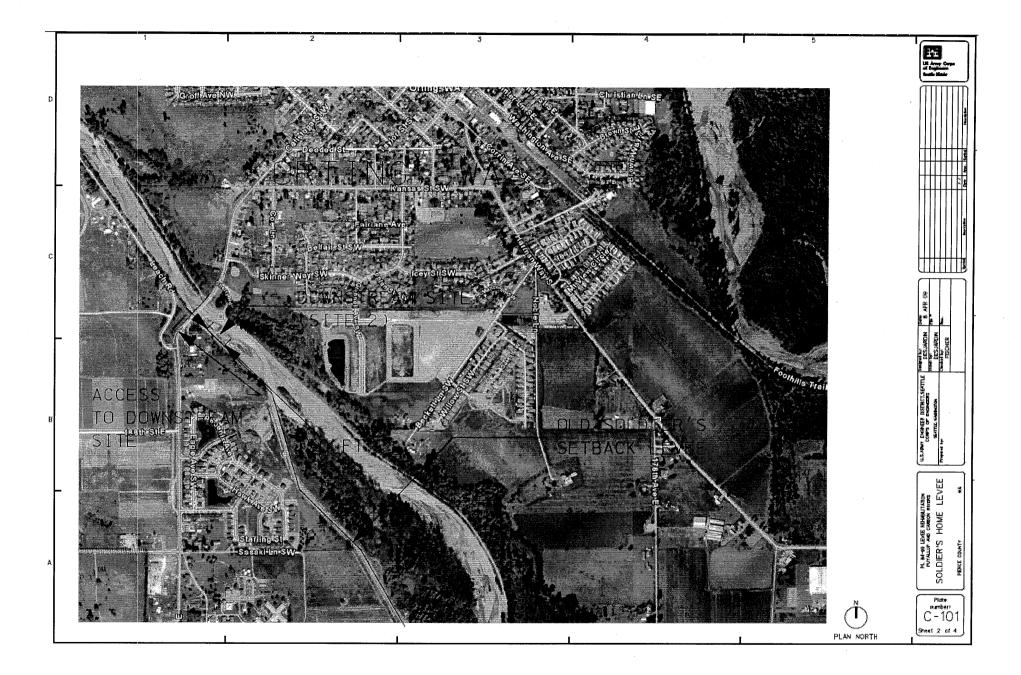


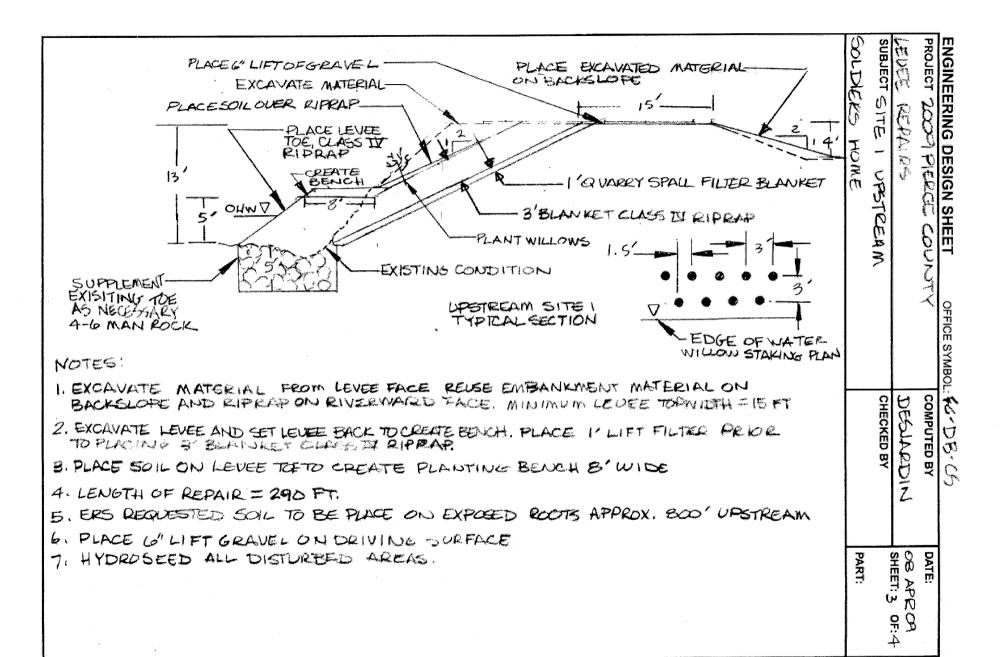
(Google Earth 2007: Annotated by Corps, 2009)

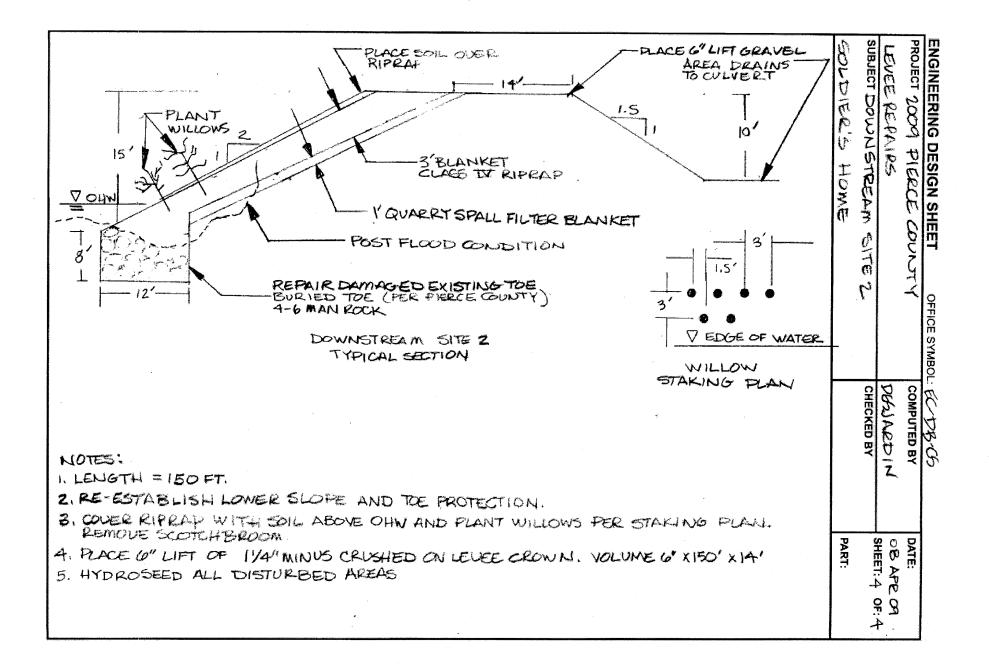
Figure 1 - Old Solders Home Map

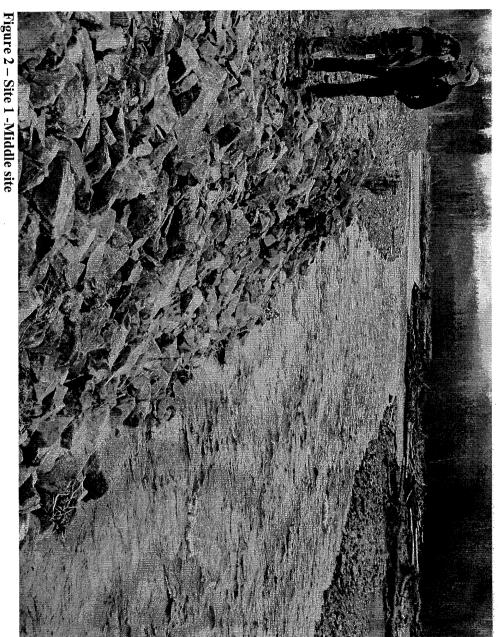
The levee is located on the left bank of the Puyallup River near Orting in Pierce County, Washington. East of the Willamette Meridian) (Sections 31 and 32, Township 19 North, Range 5 East, and Section 5, Township 18 North, Range 5











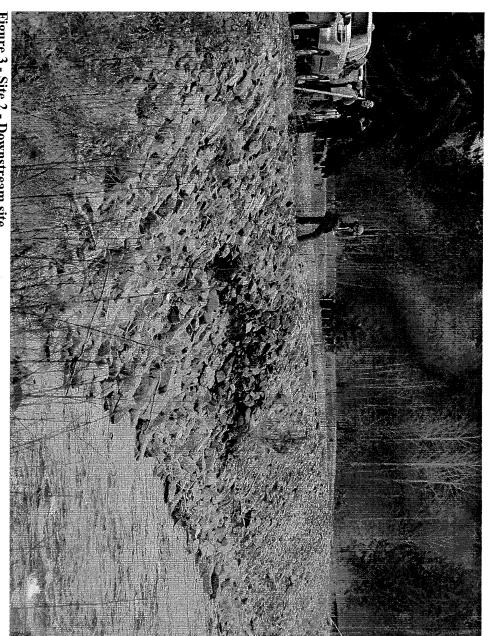


Figure 3 - Site 2 - Downstream site

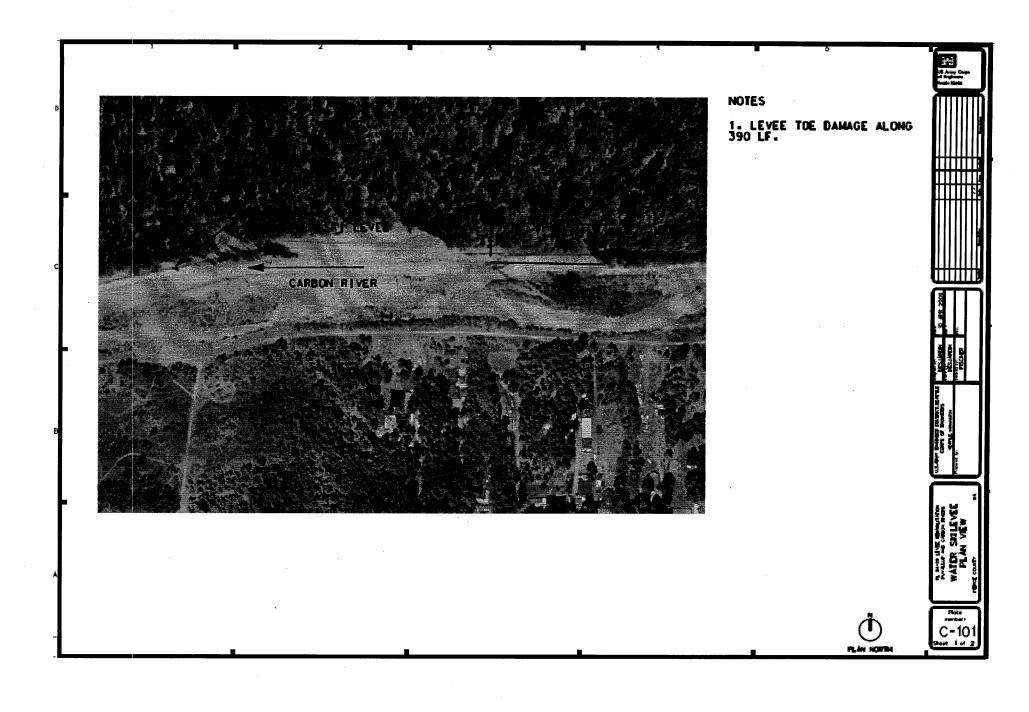
WATER SKI LEVEE

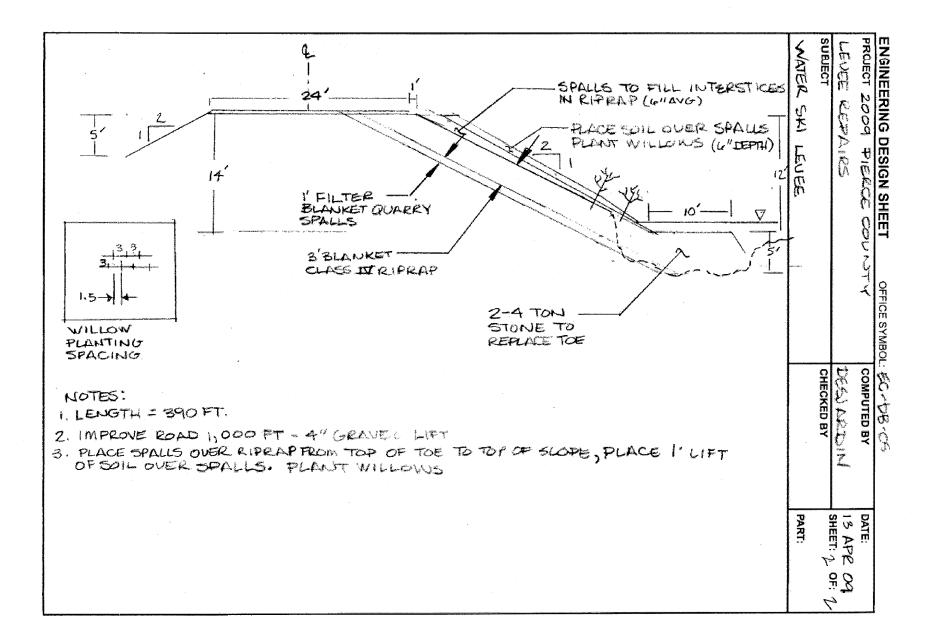
Appendix B: Project location and design data, maps, and related information



(Google Earth 2007: Annotated by Corps, 2009)

The Water Ski levee is located on the right bank of the Carbon River in Pierce County, WA (Sections 26 and 27, Township 19 North, Range 5 East, Willamette Meridian)





1.4 Appendix D: Damages

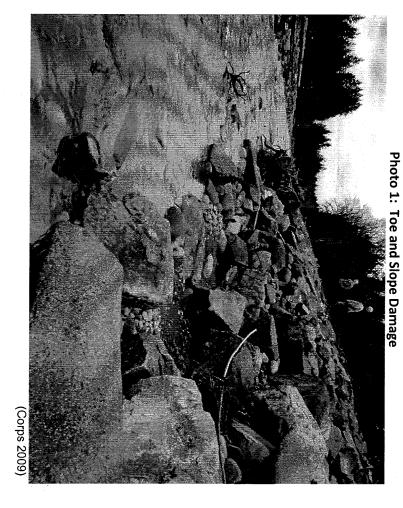


Photo 2: Missing Toe Rock

